CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/CNSM/W.No.01/CSR-08/414d/CEMENT/2017-18 Date: 16.08.2017

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
*** Agency**	:	**Mr. C.N.S Murthy** No.12, Srimatha, 3rd cross, SVC, NSS layout, 3rd stage, 4th block, Basaveshwaranagar, Bangalore- 560 079.
*** Name of Work**	:	Construction of additional class rooms toilet and Auditorium and providing office accessories to Yelahanka Government degree college Yelahanka Bangalore in Ward No.01, BBMP, Bangalore.
*** Reference**	:	EE(Project)/Ynk Zone/WO/20/2016-17 Dated: 01.09.2016
*** Sample ID**	:	Cement
Sample Received on	:	14.08.2017
Period of Testing	:	14.08.2017 to 16.08.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	180 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	470 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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****

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Job No.:CTCE/BBMP/CNSM/W.No.01/CSR-08/414d/SAND-Gradation/2017-18 16.08.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
* Agency	:	**Mr. C.N.S Murthy** No.12, Srimatha, 3rd cross, SVC, NSS layout, 3rd stage, 4th block, Basaveshwaranagar, Bangalore- 560 079.
* Name of Work	:	Construction of additional class rooms toilet and Auditorium and providing office accessories to Yelahanka Government degree college Yelahanka Bangalore in Ward No.01, BBMP, Bangalore.
* Reference	:	EE(Project)/Ynk Zone/WO/20/2016-17 Dated: 01.09.2016
* Sample ID	:	Fine Aggregates
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	14.08.2017
Date of Testing	:	16.08.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.50	90-100	90-100	90-100	95-100
2.36	71.70	60-95	75-100	85-100	95-100
1.18	50.40	30-70	55-90	75-100	90-100
600 Micron	26.90	15-34	35-59	60-79	80-100
300 Micron	12.60	5-20	8-30	12-40	15-50
150 Micron	5.10	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Ref No: CTCE/BBMP/CNSM/W.No.01/CSR-08/414d/AGG/GR/2017-18 16.08.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
* Agency	:	**Mr. C.N.S Murthy** No.12, Srimatha, 3rd cross, SVC, NSS layout, 3rd stage, 4th block, Basaveshwaranagar, Bangalore- 560 079.
* Name of Work	:	Construction of additional class rooms toilet and Auditorium and providing office accessories to Yelahanka Government degree college Yelahanka Bangalore in Ward No.01, BBMP, Bangalore.
* Reference	:	EE(Project)/Ynk Zone/WO/20/2016-17 Dated: 01.09.2016
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	14.08.2017
Date of Testing	:	16.08.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.14	95-100	85-100
20	39.64	30-70	0-20
10	14.38	10-35	0-5
4.75	1.34	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
* Agency	:	**Mr. C.N.S Murthy** No.12, Srimatha, 3rd cross, SVC, NSS layout, 3rd stage, 4th block, Basaveshwaranagar, Bangalore- 560 079.
* Name of Work	:	Construction of additional class rooms toilet and Auditorium and providing office accessories to Yelahanka Government degree college Yelahanka Bangalore in Ward No.01, BBMP, Bangalore.
* Reference	:	EE(Project)/Ynk Zone/WO/20/2016-17 Dated: 01.09.2016
* Sample ID	:	Coarse Aggregates (20mm)
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	14.08.2017
Date of Testing	:	16.08.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	96.74	95-100	85-100
10	31.58	25-55	0-20
4.75	2.34	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/CNSM/W.No.01/CSR-08/414d/CC Solid Block/2017-18 19.08.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID CONCRETE BLOCKS

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
* Agency	:	**Mr. C.N.S Murthy** No.12, Srimatha, 3rd cross, SVC, NSS layout, 3rd stage, 4th block, Basaveshwaranagar, Bangalore- 560 079.
* Name of Work	:	Construction of additional class rooms toilet and Auditorium and providing office accessories to Yelahanka Government degree college Yelahanka Bangalore in Ward No.01, BBMP, Bangalore.
* Reference	:	EE(Project)/Ynk Zone/WO/20/2016-17 Dated: 01.09.2016
Technical Reference	:	IS: 2185 (Part-1) - 2005 (RA-2010)
Size of Blocks	:	400mm x 200mm x 200mm
Cross Sectional Area	:	80000 mm^2
No. of Blocks Tested	:	08
Sample Received on	:	14.08.2017
Date of Testing	:	19.08.2017

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2010)
1	Block 1	36.28	283.6	3.55	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	34.21	284.1	3.55	
3	Block 3	36.17	282.6	3.53	
4	Block 4	35.28	282.0	3.53	
5	Block 5	36.17	281.6	3.52	
6	Block 6	35.08	282.4	3.53	
7	Block 7	35.61	285.6	3.57	
8	Block 8	34.82	286.1	3.58	

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Ref.No.: CTCE/BBMP/CNSM/W.No.01/CSR-08/414d/Cube/2017-18 18.09.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
* Agency	:	**Mr. C.N.S Murthy** No.12, Srimatha, 3rd cross, SVC, NSS layout, 3rd stage, 4th block, Basaveshwaranagar, Bangalore- 560 079.
* Name of the work	:	Construction of additional class rooms toilet and Auditorium and providing office accessories to Yelahanka Government degree college Yelahanka Bangalore in Ward No.01, BBMP, Bangalore.
* Reference	:	EE(Project)/Ynk Zone/WO/20/2016-17 Dated: 01.09.2016
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.09.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.08.2017	18.09.2017	8.264	486.5	21.62
2	21.08.2017	18.09.2017	8.349	500.9	22.26
3	21.08.2017	18.09.2017	8.450	516.2	22.94

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Job No.: CTCE/BBMP/CNSM/W.No.01/Tiles/2017-18 28.08.2017

TEST REPORT ON CERAMIC TILES

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
* Agency	:	**Mr. C.N.S Murthy** No.12, Srimatha, 3rd cross, SVC, NSS layout, 3rd stage, 4th block, Basaveshwaranagar, Bangalore- 560 079.
* Name of the Work	:	Construction of additional class rooms toilet and Auditorium and providing office accessories to Yelahanka Government degree college Yelahanka Bangalore in Ward No.01, BBMP, Bangalore.
* Reference	:	EE(Project)/Ynk Zone/WO/20/2016-17 Dated: 01.09.2016
* Sample ID	:	Ceramic tiles
Date of Testing	:	28.08.2017

Sl. No.	Type of test	Result as per Test
1	Shape of Tiles	Square
2	Dimensions Of Tiles	300mm X 300mm
3	Thickness	12.0mm

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Job No.: **CTCE/BBMP/CNSM/W.No.01**/Glazed Tiles/2017-18 Date: 28.08.2017

TEST REPORT ON GLAZED TILES

*** Customer**	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
*** Agency**	:	**Mr. C.N.S Murthy** No.12, Srimatha, 3rd cross, SVC, NSS layout, 3rd stage, 4th block, Basaveshwaranagar, Bangalore- 560 079.
*** Name of work**	:	Construction of additional class rooms toilet and Auditorium and providing office accessories to Yelahanka Government degree college Yelahanka Bangalore in Ward No.01, BBMP, Bangalore.
*** Reference**	:	EE(Project)/Ynk Zone/WO/20/2016-17 Dated: 01.09.2016
*** Samples ID**	:	Glazed Tiles
Date of Testing	:	28.08.2017

Sl.No	Type of test	Result as per Test
1	Shape of Tiles	Square
2	Dimensions Of Tiles	150mm X 150mm
3	Thickness	6mm

*Information is furnished by the Customer/Representative.

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